

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/067,832D
Source: O/PE
Date Processed by STIC: 10-20-2004.

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OIPE

RAW SEQUENCE LISTING

DATE: 10/20/2004

PATENT APPLICATION: US/10/067,832D

TIME: 16:13:11

Input Set : A:\22975271.app

Output Set: N:\CRF4\10202004\J067832D.raw

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3 <110> APPLICANT: ZIMMET, PAUL ZEV
4   COLLIER, GREGORY
6 <120> TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR
8 <130> FILE REFERENCE: 229752000701
10 <140> CURRENT APPLICATION NUMBER: 10/067,832D
11 <141> CURRENT FILING DATE: 2002-06-03
13 <150> PRIOR APPLICATION NUMBER: 09/331,930
14 <151> PRIOR FILING DATE: 1999-06-30
16 <150> PRIOR APPLICATION NUMBER: PCT/AU98/00902
17 <151> PRIOR FILING DATE: 1998-10-30
19 <150> PRIOR APPLICATION NUMBER: AU PP 0117
20 <151> PRIOR FILING DATE: 1997-10-31
22 <150> PRIOR APPLICATION NUMBER: AU PP 0323
23 <151> PRIOR FILING DATE: 1997-11-11
25 <160> NUMBER OF SEQ ID NOS: 22
27 <170> SOFTWARE: PatentIn Ver. 3.2
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 370
31 <212> TYPE: DNA
32 <213> ORGANISM: Psammomys obesus
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (29)..(247)
38 <400> SEQUENCE: 1
39 gttccaggag attacagctc cagccaca atg att gag gtg gtt tgc aac gac      52
40                               Met Ile Glu Val Val Cys Asn Asp
41                               1           5
43 cgt cta gga aag aaa gtc cgc gtt aag tgc aac acc gat gac acc atc      100
44 Arg Leu Gly Lys Lys Val Arg Val Lys Cys Asn Thr Asp Asp Thr Ile
45   10           15           20
47 ggg gac ttg aag aaa ctg ata gcg gcc caa act ggc act cgt tgg aat      148
48 Gly Asp Leu Lys Lys Leu Ile Ala Ala Gln Thr Gly Thr Arg Trp Asn
49   25           30           35           40
51 aag atc gtt ctt aaa aag tgg tac acg att ttt aag gac cat gta tct      196
52 Lys Ile Val Leu Lys Lys Trp Tyr Thr Ile Phe Lys Asp His Val Ser
53   45           50           55
55 ctg gga gat tat gaa atc cac gat ggg atg aac ctg gag ctt tat tac      244
56 Leu Gly Asp Tyr Glu Ile His Asp Gly Met Asn Leu Glu Leu Tyr Tyr
57   60           65           70
59 cag tagaggggaa ttcctccacc ttgcccaacc ttgcttttct ctcccatggc      297
60 Gln
62 tcatttaaca ctgtttaga tgctcatttt taacaattca catgaataaa aactttgatg      357
64 ctgcaaaaaa aaa                                     370

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67 <210> SEQ ID NO: 2
68 <211> LENGTH: 73
69 <212> TYPE: PRT
70 <213> ORGANISM: Psammomys obesus
72 <400> SEQUENCE: 2
73 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
74   1           5           10           15
76 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
77           20           25           30
79 Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
80           35           40           45
82 Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
83           50           55           60
85 Gly Met Asn Leu Glu Leu Tyr Tyr Gln
86   65           70
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 342
92 <212> TYPE: DNA
93 <213> ORGANISM: Psammomys obesus
95 <400> SEQUENCE: 3
96 tcatgtgaat tgttaaaaat gagcatctac aacagtgtta aatgagccat gggagaggaa 60
97 agcaaggttg ggcaaggttg aggaattccc ctctactggt aataaagctc caggttcac 120
98 ccacgtgga ttccataatc tcccagagat acatggctct taaaaatcgt gtaccacttt 180
99 ttaagaacga tcttattcca acgagtgccg gtttgggccg ctatcagttt cttcaagtcc 240
100 ccgatggtgt catcggtgtt gcacttaacg cggactttct ttcctagacg gtcggtgcaa 300
101 accacctcaa tcattgtggc tggagctgta atctcctgga ac 342
104 <210> SEQ ID NO: 4
105 <211> LENGTH: 16
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
111     primer
113 <400> SEQUENCE: 4
114 aagctttttt tttttg 16
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 13
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
124     primer
126 <400> SEQUENCE: 5
127 aagcttcggg taa 13
130 <210> SEQ ID NO: 6
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:

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136 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
137 primer
139 <400> SEQUENCE: 6
140 agtccgcgtt aagtgaaca 20
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
150 primer
152 <400> SEQUENCE: 7
153 ctccaggttc atcccatcgt 20
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
163 primer
165 <400> SEQUENCE: 8
166 ggctacagct tcaccaccac 20
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 20
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
176 primer
178 <400> SEQUENCE: 9
179 gcttgctgat ccacatctgc 20
182 <210> SEQ ID NO: 10
183 <211> LENGTH: 30
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
189 primer
191 <400> SEQUENCE: 10
192 tggtataaaa gctccaggtt catcccatcg 30
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
202 primer
204 <400> SEQUENCE: 11
205 caaactggca ctcgttgga 20

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Input Set : A:\22975271.app

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208 <210> SEQ ID NO: 12
209 <211> LENGTH: 19
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
215     primer
217 <400> SEQUENCE: 12
218 gttgggcaag gtggaggaa                                19
221 <210> SEQ ID NO: 13
222 <211> LENGTH: 102
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
226 <220> FEATURE:
227 <221> NAME/KEY: CDS
228 <222> LOCATION: (1)..(99)
230 <220> FEATURE:
231 <221> NAME/KEY: modified_base
232 <222> LOCATION: (44)
233 <223> OTHER INFORMATION: a, c, g, or t
235 <400> SEQUENCE: 13
W--> 236 atg atc gag gtt gtt tgc aac gac cgt ctg ggg aaa aag gtc cnc gtt    48
      237 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa Val
      238   1               5               10               15
      240 aaa tgc aac acg gat gat acc atc ggg gac ctt aag aag ctg att gca    96
      241 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
      242               20               25               30
      244 gcc taa                                102
      245 Ala
      248 <210> SEQ ID NO: 14
      249 <211> LENGTH: 33
      250 <212> TYPE: PRT
      251 <213> ORGANISM: Homo sapiens
      253 <220> FEATURE:
      254 <221> NAME/KEY: MOD_RES
      255 <222> LOCATION: (15)
      256 <223> OTHER INFORMATION: Leu, Pro, His, or Arg
      258 <400> SEQUENCE: 14
W--> 259 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa Val
      260   1               5               10               15
      262 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
      263               20               25               30
      265 Ala
      270 <210> SEQ ID NO: 15
      271 <211> LENGTH: 73
      272 <212> TYPE: PRT
      273 <213> ORGANISM: Homo sapiens
      275 <400> SEQUENCE: 15
      276 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val

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277   1           5           10           15
279 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
280           20           25           30
282 Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
283           35           40           45
285 Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
286           50           55           60
288 Gly Met Asn Leu Glu Leu Tyr Tyr Gln
289 65           70
292 <210> SEQ ID NO: 16
293 <211> LENGTH: 73
294 <212> TYPE: PRT
295 <213> ORGANISM: Mus musculus
297 <400> SEQUENCE: 16
298 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
299   1           5           10           15
301 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
302           20           25           30
304 Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
305           35           40           45
307 Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
308           50           55           60
310 Gly Met Asn Leu Glu Leu Tyr Tyr Gln
311 65           70
314 <210> SEQ ID NO: 17
315 <211> LENGTH: 73
316 <212> TYPE: PRT
317 <213> ORGANISM: Caenorhabditis elegans
319 <400> SEQUENCE: 17
320 Met Ile Glu Ile Thr Val Asn Asp Arg Leu Gly Lys Lys Val Arg Ile
321   1           5           10           15
323 Lys Cys Asn Pro Ser Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
324           20           25           30
326 Ala Gln Thr Gly Thr Arg Trp Glu Lys Ile Val Leu Lys Lys Trp Tyr
327           35           40           45
329 Thr Ile Tyr Lys Asp His Ile Thr Leu Met Asp Tyr Glu Ile His Glu
330           50           55           60
332 Gly Phe Asn Phe Glu Leu Tyr Tyr Gln
333 65           70
336 <210> SEQ ID NO: 18
337 <211> LENGTH: 66
338 <212> TYPE: PRT
339 <213> ORGANISM: Fasciola hepatica
341 <400> SEQUENCE: 18
342 Asp Arg Leu Gly Lys Lys Val Arg Val Lys Cys Asn Pro Thr Asp Lys
343   1           5           10           15
345 Val Gly Asp Leu Lys Lys Leu Ile Ala Gln Thr Gly Thr Ala Pro
346           20           25           30
348 Glu Arg Ile Val Leu Lys Lys Trp Tyr Thr Ile Tyr Lys Asp His Val

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/067,832D

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TIME: 16:13:12

Input Set : A:\22975271.app
Output Set: N:\CRF4\10202004\J067832D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 14
Seq#:13; Xaa Pos. 15
Seq#:14; Xaa Pos. 15

VERIFICATION SUMMARY

DATE: 10/20/2004

PATENT APPLICATION: US/10/067,832D

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Input Set : A:\22975271.app

Output Set: N:\CRF4\10202004\J067832D.raw

L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

M:341 Repeated in SeqNo=13

L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0